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---- Application No. 10/807,073

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

- 1. (Currently Amended) An imaging member possessing a collection efficiency proportional to an electric field, and which member is comprised of a single first layer containing a photogenerating component and a mixture of a charge transport component and a polymeric binder, and wherein the charge transport component is comprised of a mixture of hole transport and electron transport components, and a second layer in contact with said first layer, and which second layer is comprised of at least one hole transport component.
- 2. (Currently Amended) A photoconductive imaging member comprised of a supporting substrate, and thereover a single first layer comprised of a mixture of a photogenerator component, a hole transport component, an electron transport component, and a polymer binder, and optionally wherein the photogenerating component is a metal free phthalocyanine, and wherein the weight ratio of photogenerating component to binder, hole transport and electron transport components is from about 1:99 to about 2:98, and the weight ratio of the binder component to the hole and electron transport component is from about 40:60 to about 60:40, and the weight ratio of the hole transport component to the electron transport component is from about 70:30 to about 50:50, and thereover and in contact with said first layer a second layer comprised of hole transport molecules dispersed in a resin binder.

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- 3. (Original) An imaging member in accordance with claim 1 wherein the photogenerating component is the x polymorph metal free phthalocyanine prepared by milling the pigment and said polymeric binder at a weight ratio of about 40:60 to about 50:50 for 10 hours, and optionally wherein the pigment surface has substantially no traceable contaminates at about above 0.1 percent in weight versus the pigment weight, and the particle size of said pigment is from about 100 to about 250 nanometers as measured by light scattering.
- 4. (Currently Amended) An imaging member in accordance with claim 1 wherein the weight ratio of the photogenerating component and charge hole transport component is from about 1:1 to about 1:100.
- 5. (Original) An imaging member in accordance with claim

 1 wherein the weight ratio of the photogenerating component and hole transport component is from about 1:0.5 to about 1:50.
- 6. (Original) An imaging member in accordance with claim 1 wherein the weight ratio of the photogenerating component and the electron transport component is from about 1:0.5 to about 1:50.
- 7. (Original) An imaging member in accordance with claim

 1 wherein the weight ratio of the hole transport component to the electron transport component is from about 1:1 to 3:1.
- 8. (Original) An imaging member in accordance with claim

 1 wherein the collection efficiency is proportional to an electric field at light with a wavelength of from about 350 to about 950 nanometers.

- 9. (Original) An imaging member in accordance with claim 1 wherein the weight ratio of the photogenerating component to charge transport component is from about 2:100 to about 5:100, and the collection efficiency is proportional to said electric field of from about 1 to about 50 V/μm of the imaging member at light of a wavelength of from about 780 nanometers.
- 10. (Original) An imaging member in accordance with claim

 1 wherein said collection efficiency is proportional to the electric field at a xerographic process speed of about 40 mm/s to about 400 mm/s.
- (Original) An imaging member in accordance with claim
 wherein said collection efficiency is proportional to said electric field at a dark decay rate of about 1 V/s to about 2,000 V/s.
- 12. (Currently Amended) An imaging member in accordance with claim 1 wherein said single first layer is of a thickness of from about 5 to about 60 microns wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is from about 1:46:27:16 to about 1:50:40:17.



- 13. (Currently Amended) An imaging member in accordance with claim 1 wherein the amounts for each of said components in said eingle first layer is from about 0.05 weight percent to about 30 weight percent for the photogenerating component, from about 10 weight percent to about 75 weight percent for the charge transport component, and from about 10 weight percent to about 75 weight percent for the electron transport component, and wherein the total of said components is about 100 percent, and wherein said layer components are dispersed in from about 10 weight percent to about 75 weight percent of said polymer binder, and wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is about 1.4:48.6:32:18.
- 14. (Currently Amended) An imaging member in accordance with claim 1 wherein the amounts for each of said components in the single first layer mixture is from about 0.5 weight percent to about 5 weight percent for the photogenerating component; from about 30 weight percent to about 50 weight percent for the charge transport component; and from about 5 weight percent to about 30 weight percent for the electron transport component; and which components are contained in from about 30 weight percent to about 50 weight percent of a polymer binder.
- 15. (Currently Amended) An imaging member in accordance with claim 1 wherein the thickness of said <u>first</u> layer is from about 10 to about 35 microns.
- 16. (Currently Amended) An imaging member in accordance with claim 1 wherein said eingle first layer components are dispersed in said polymer binder, and wherein said charge transport is comprised of hole transport molecules.

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- 17. (Original) An imaging member in accordance with claim
 16 wherein said binder is present in an amount of from about 50 to about 90
 percent by weight, and wherein the total of all components of said
 photogenerating component, said charge transport component, said binder,
 and said electron transport component is about 100 percent.
- 18. (Original) An imaging member in accordance with claim

 1 wherein said photogenerating component absorbs light of a wavelength of
 from about 370 to about 950 nanometers.
- 19. (Original) An imaging member in accordance with claim1 further containing a supporting substrate comprised of a conductive metal.
- 20. (Original) An imaging member in accordance with claim 19 wherein the substrate is aluminum, aluminized polyethylene terephthalate or titanized polyethylene terephthalate.
- 21. (Currently Amended) An imaging member in accordance with claim 19 claim 1 wherein the binder is selected from the group consisting of polyesters, polyvinyl butyrals, polycarbonates, polystyrene-b-polyvinyl pyridine, and polyvinyl formulas.

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22. (Currently Amended) An imaging member in accordance with claim 1 wherein said charge hole transport component or components for said first layer and said second layer is comprised of molecules of the formula

wherein X is selected from the group consisting of alkyl, alkoxy and halogen.

- 23. (Original) An imaging member in accordance with claim 22 wherein alkyl contains from about 1 to about 10 carbon atoms, and wherein the charge transport is an aryl amine encompassed by said formula and which amine is optionally dispersed in a resinous binder.
- 24. (Original) An imaging member in accordance with claim 22 wherein alkyl is methyl, and wherein halogen is chloride.
- 25. (Currently Amended) An imaging member in accordance with claim 22 wherein said charge hole transport is comprised of molecules of N,N'-diphenyl-N,N-bis(3-methyl phenyl)-1,1'-biphenyl-4,4'-diamine.

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- 26. **(Original)** An imaging member in accordance with **claim** 1 wherein said electron transport component is (4-n-butoxycarbonyl-9-fluorenylidene) malononitrile, 2-methylthioethyl 9-dicyanomethylenefluorene-4-carboxylate, 2-(3-thienyl)ethyl 9-dicyanomethylenefluorene-4-carboxylate, 2-phenylthioethyl 9-dicyanomethylene fluorene-4-carboxylate, 11,11,12,12-tetracyano anthraquinodimethane or 1,3-dimethyl-10-(dicyanomethylene)-anthrone.
- 27. (Original) An imaging member in accordance with claim 1 wherein said electron transport component is (4-n-butoxycarbonyl-9-fluorenylidene) malononitrile.
- 28. (Original) An imaging member in accordance with claim 22 wherein said electron transport component is (4-n-butoxycarbonyl-9-fluorenylidene)malononitrile, 2-methylthioethyl 9-dicyanomethylenefluorene-4-carboxylate, 2-(3-thienyl)ethyl 9-dicyanomethylenefluorene-4-carboxylate, 2-phenylthioethyl 9-dicyanomethylene fluorene-4-carboxylate, 11,11,12,12-tetracyano anthraquinodimethane or 1,3-dimethyl-10-(dicyanomethylene)-anthrone.
- 29. (Original) An imaging member in accordance with claim

 1 further including a second photogenerating component of a titanyl
 phthalocyanine, a metal phthalocyanine other than titanyl phthalocyanine, a
 perylene, trigonal selenium, or mixtures thereof.
- 30. **(Original)** An imaging member in accordance with **claim** 11 wherein said electron transport is (4-n-butoxy carbonyl-9-fluorenylidene)malononitrile, and the charge transport is a hole transport of N,N'-diphenyl-N,N-bis(3-methyl phenyl)-1,1'-biphenyl-4,4"-diamine molecules.

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31. (Cancelled)

32. (Currently Amended) An A photoconductive imaging member in accordance with claim 31 claim 2 wherein said electron transport is (4-n-butoxycarbonyl-9-fluorenylidene)malononitrile, 2-methylthioethyl 9-dicyanomethylenefluorene-4-carboxylate, and optionally, wherein said imaging member further contains an adhesive layer and a hole blocking layer.

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33. (Currently Amended) An imaging member in accordance with claim 1 wherein said photogenerating component is optionally comprised of a metal free phthalocyanine photogenerating pigment dispersed in a matrix comprising an arylamine hole transport, and wherein said electron transport is selected from the group consisting of N,N'-bis(1,2-dimethylpropyl)-1,4,5,8-naphthalenetetracarboxylic diimide

1,1'-dioxo-2-(4-methylphenyl)-6-phenyl-4-(dicyanomethylidene) thiopyran

wherein R is independently selected from the group consisting of hydrogen, alkyl with 1 to about 4 carbon atoms, alkoxy with 1 to about 4 carbon atoms and halogen, and a quinone selected from the group consisting of carboxybenzylnaphthaquinone

and tetra(t-butyl) diphenolquinone

and mixtures thereof.

34. (Currently Amended) An imaging member accordance with claim 1 wherein said binder is selected from the group consisting of polycarbonates, polystyrene-b-polyvinyl pyridine, N,N'-diphenyl-N,N'-bis(alkylphenyl)-1,1-biphenyl-4,4'-diamine; TTA, tri-p-tolylamine; AE-18, N,N'-bis-(3,4,-dimethylphenyl)-4-biphenyl amine; AB-16. N,N'-bis-(4methylphenyl)-N,N"-bis(4-ethylphenyl)-1,1'-3,3'-dimethylbiphenyl)-4,4'diamine; and PHN, phenanthrene diamine; and wherein the charge transport for said first layer and said second layer comprises aryl amine molecules of the formula

wherein X is selected from the group consisting of alkyl and halogen.

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- 35. (Currently Amended) A member in accordance with claim 2 wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is about 1:4:48.6:32:18, about 1:2/48.8/32/18, or about 1:6/48.4/32/18 from about 1:45:25:15 to about 1:55:35:18.
- 36. (Original) A method of imaging which comprises generating an electrostatic latent image on the imaging member of claim 11, developing the latent image, and transferring the developed electrostatic image to a suitable substrate.
- 37. (Currently Amended) A photoconductive imaging member comprised of a supporting substrate, and thereover a single first layer comprised of a mixture of a photogenerator component, a charge transport component, an electron transport component, and a polymer binder, and wherein the weight ratio of photogenerating component/binder/charge transport/electron transport component is from about 1:45:25:15 to about 1:55:35:18, and thereover and in contact with said first layer a second layer wherein said second layer is comprised of a charge transport component and a resin binder.
- 38. (Original) A photoconductive imaging member in accordance with claim 37 wherein said photogenerating component is a metal free phthalocyanine.
- 39. **(New)** A photoconductive imaging member in accordance with **claim 37** wherein said charge transport component for said first and second layer is comprised of hole transport molecules.

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40. (New) A photoconductive imaging member in accordance with claim 2 further containing a hole blocking layer and an adhesive layer, and wherein the hole blocking layer is in contact with the supporting substrate, and the adhesive layer is situated between said hole blocking layer and said first layer.

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